

ABSTRACT

The present invention provides novel immunotoxins and
5 methods of treating neoplastic diseases. These immunotoxins are
comprised of a conjugation of an antigen binding region exhibiting
binding specificity for the CD33 protein and a cell growth modulator.
The immunotoxins of the present invention specifically and
selectively kill tumor cells that are characterized by the expression of
10 CD33 antigen. Thus, the novel immunotoxins would be useful in
treating human leukemias, both acute and chronic, and other
myelodysplastic syndromes.

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